

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P454334

Luminaire Tested: **GALN-SA5B-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22594 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

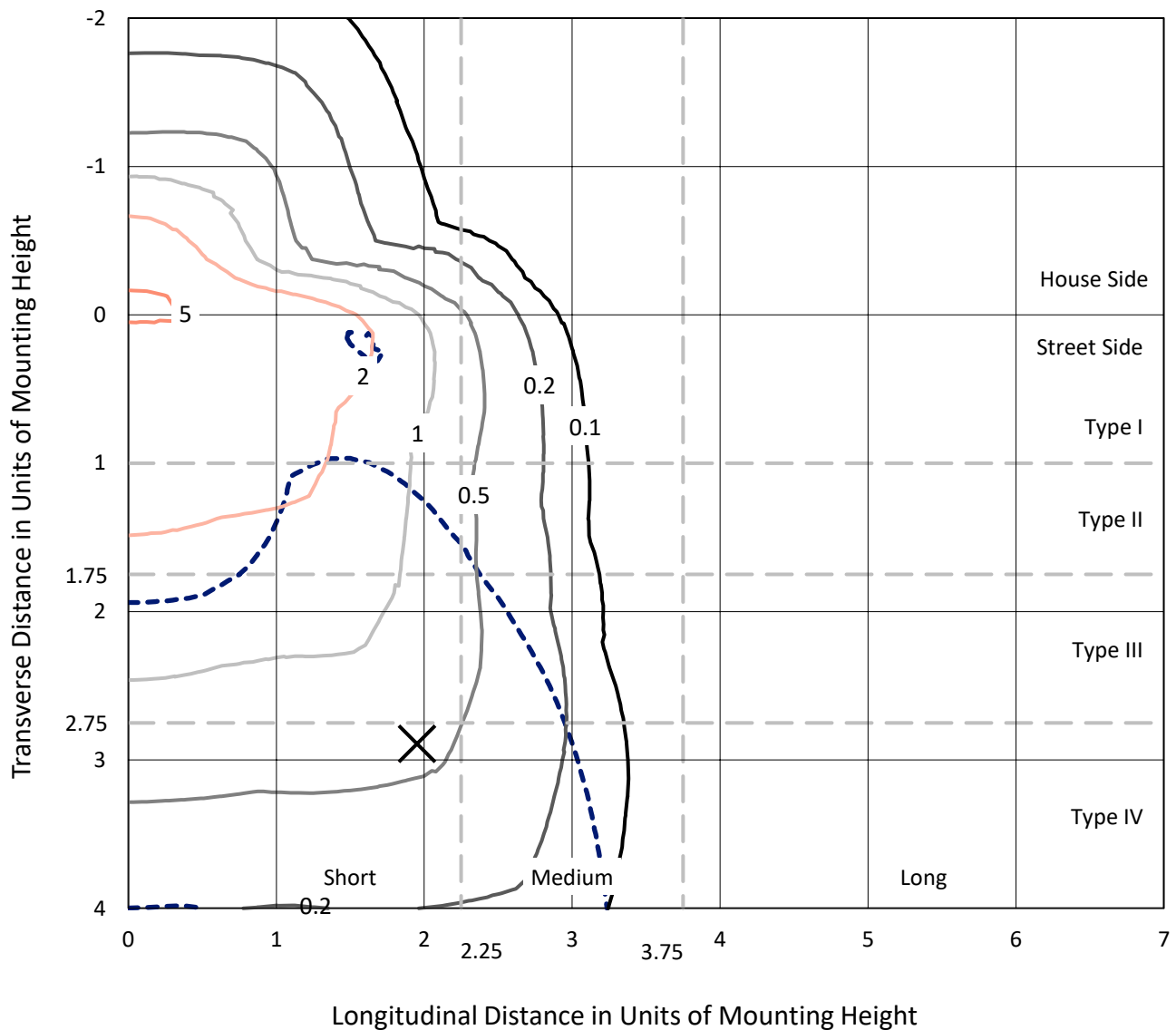


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

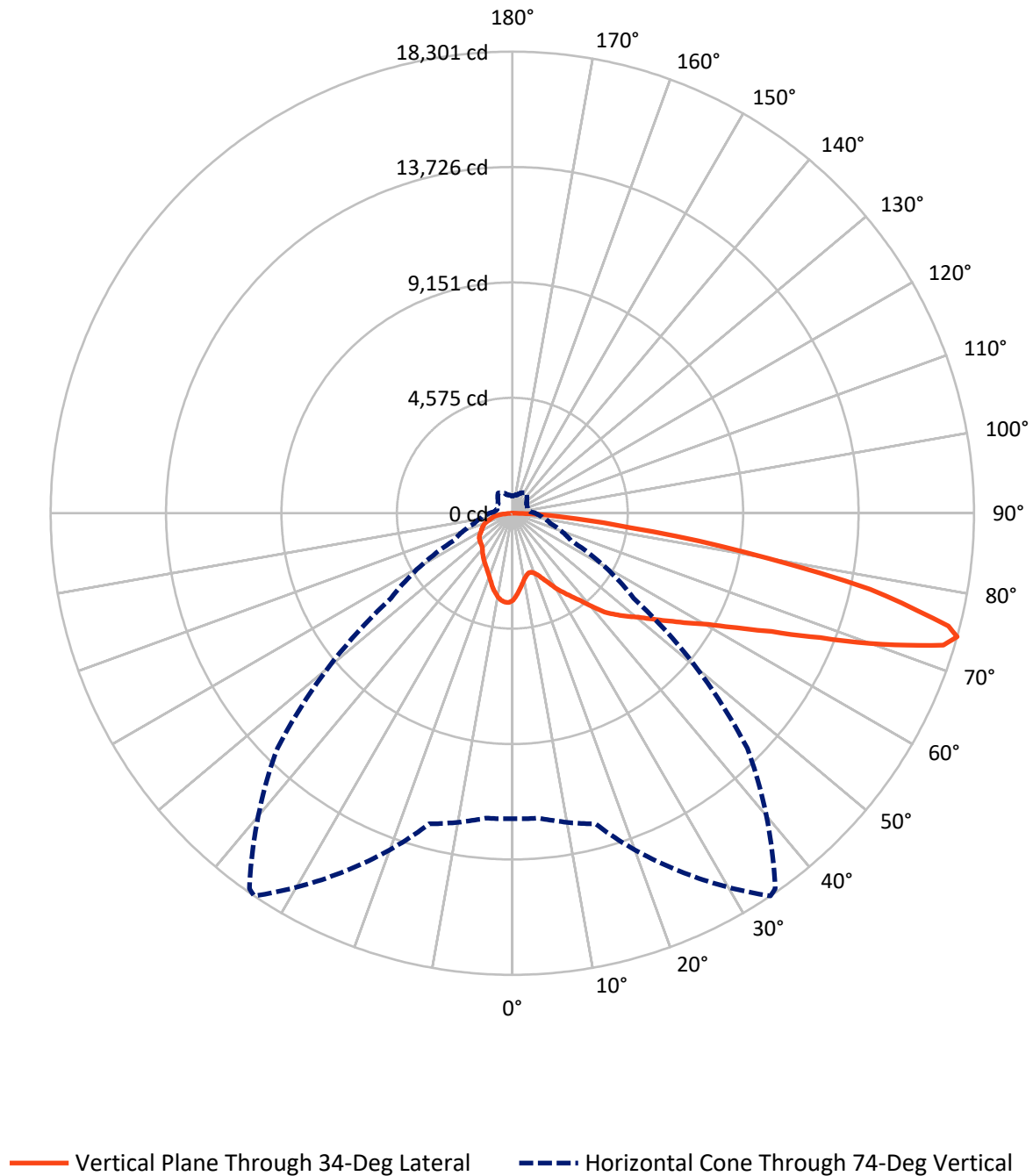


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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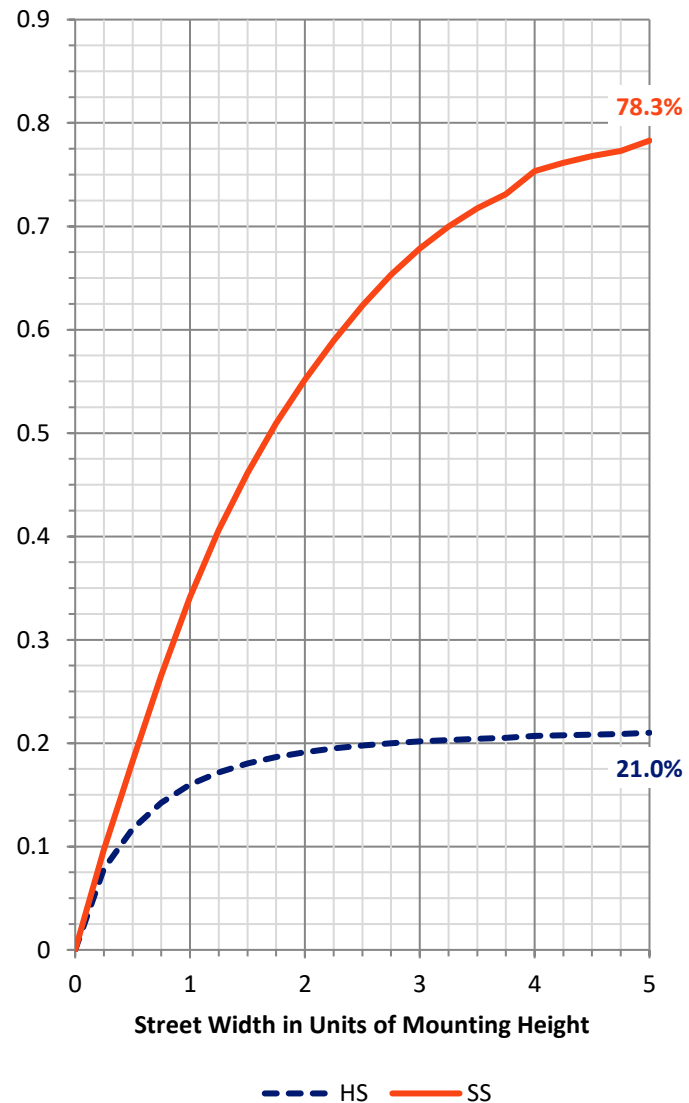
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4808.2	0.0	4808.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	17785.8	0.0	17785.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	22594.0	0.0	22594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.7	1.4
10°-20°	858.8	3.8
20°-30°	1416.0	6.3
30°-40°	2121.0	9.4
40°-50°	3083.3	13.6
50°-60°	4306.7	19.1
60°-70°	5391.7	23.9
70°-80°	4458.5	19.7
80°-90°	644.2	2.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	22594.0	100.0
0°-180°	22594.0	100.0

Coefficient of Utilization



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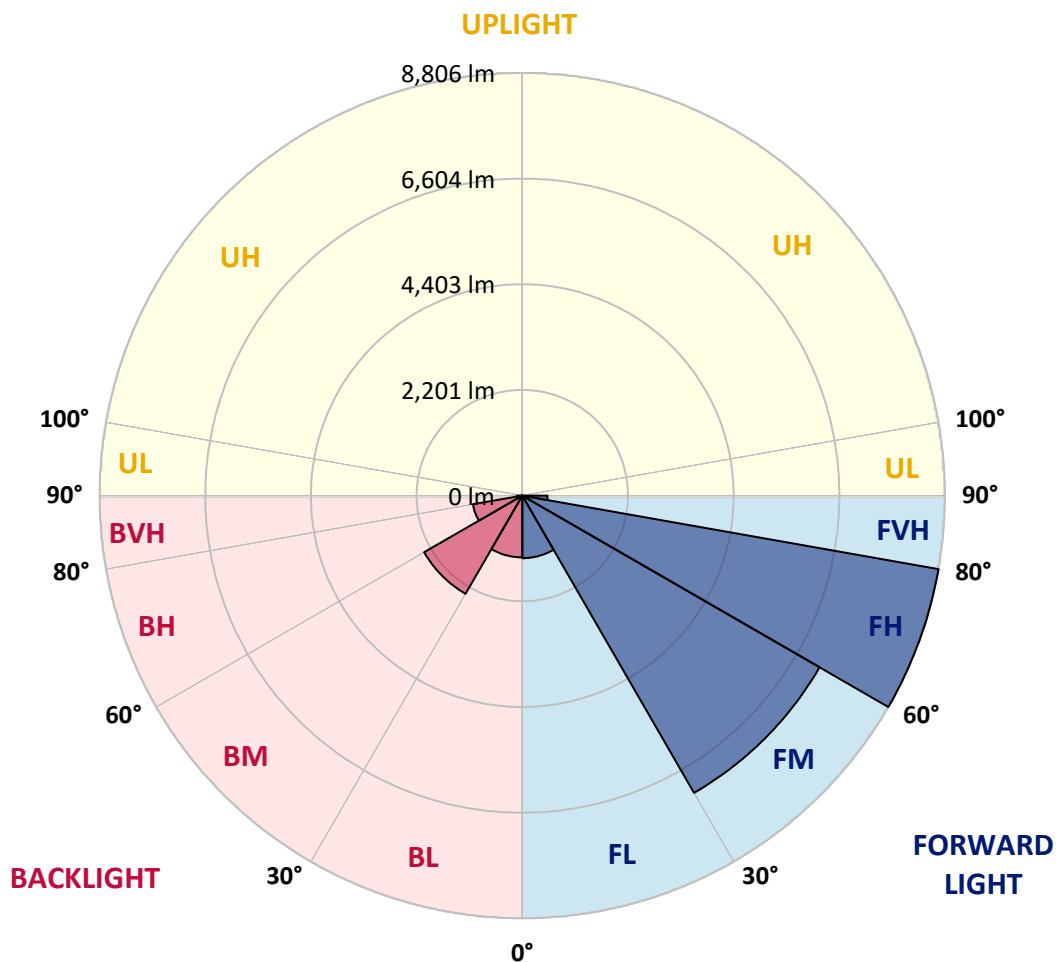
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1302.4	5.8			
FM	(30°-60°)	7149.7	31.6			
FH	(60°-80°)	8806.0	39.0			G4/12000
FVH	(80°-90°)	527.8	2.3			G4/750
BL	(0°-30°)	1286.1	5.7	B3/2500		
BM	(30°-60°)	2361.3	10.5	B2/2500		
BH	(60°-80°)	1044.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	116.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3449.7	3449.7	3449.7	3449.7	3449.7	3449.7	3449.7	3449.7	3449.7	3449.7	3449.7
2.5°	3188.1	3204.3	3213.1	3244.4	3251.9	3261.9	3288.2	3323.2	3368.3	3408.4	3443.4
5°	2922.7	2947.7	2962.7	2990.3	3044.1	3049.1	3119.2	3199.3	3290.7	3375.8	3445.9
7.5°	2671.1	2698.6	2711.2	2761.2	2832.6	2843.8	2946.5	3072.9	3225.6	3354.5	3462.2
10°	2482.1	2495.9	2523.4	2561.0	2646.1	2653.6	2787.5	2956.5	3154.3	3344.5	3489.7
12.5°	2379.5	2387.0	2393.2	2433.3	2517.1	2528.4	2668.6	2860.1	3097.9	3352.0	3534.8
15°	2394.5	2397.0	2369.4	2377.0	2444.6	2460.8	2599.8	2796.3	3062.9	3370.8	3602.4
17.5°	2520.9	2512.1	2444.6	2409.5	2457.1	2464.6	2586.0	2771.2	3046.6	3405.8	3672.5
20°	2719.9	2707.4	2591.0	2513.4	2540.9	2547.2	2631.1	2790.0	3062.9	3463.4	3781.4
22.5°	2967.8	2962.7	2786.3	2692.4	2691.1	2691.1	2734.9	2857.6	3111.7	3542.3	3895.3
25°	3314.5	3288.2	3057.9	2936.5	2902.7	2900.2	2895.2	2969.0	3174.3	3626.1	4030.4
27.5°	3670.0	3624.9	3419.6	3233.1	3160.5	3151.8	3119.2	3126.7	3254.4	3721.3	4184.4
30°	3989.1	3960.3	3767.6	3561.1	3474.7	3454.7	3364.5	3323.2	3388.3	3892.8	4429.7
32.5°	4233.2	4215.7	4065.5	3877.7	3750.1	3746.3	3614.9	3581.1	3597.4	4100.5	4710.1
35°	4431.0	4437.2	4360.9	4198.2	4051.7	4030.4	3942.8	3900.3	3852.7	4400.9	5063.1
37.5°	4701.3	4715.1	4710.1	4569.9	4390.9	4395.9	4375.9	4305.8	4179.4	4736.4	5454.9
40°	4999.2	5009.3	5008.0	4954.2	4860.3	4865.3	4857.8	4777.7	4588.7	5163.2	5890.5
42.5°	5411.1	5363.5	5239.6	5293.4	5348.5	5372.3	5423.6	5347.2	5088.1	5618.8	6299.8
45°	5871.7	5781.6	5501.2	5526.2	5730.2	5775.3	6058.2	5953.0	5630.1	6142.0	6781.7
47.5°	6162.1	6073.2	5836.6	5831.6	6102.0	6145.8	6646.5	6607.7	6123.3	6706.6	7369.9
50°	6421.2	6408.7	6142.0	6205.9	6470.0	6535.1	7287.3	7251.0	6615.2	7372.5	8010.8
52.5°	6805.4	6704.1	6491.3	6622.7	6971.9	7057.0	7923.2	7816.8	7067.0	7960.7	8632.9
55°	6978.2	6954.4	6941.9	7055.8	7535.2	7596.5	8541.5	8297.5	7452.6	8458.9	9106.0
57.5°	7440.0	7396.2	7520.2	7597.8	8198.6	8292.4	9187.4	8799.4	7790.5	8854.5	9336.4
60°	8038.4	8014.6	8128.5	8268.7	8939.6	9082.3	9923.4	9227.5	8062.1	9053.5	9209.9
62.5°	8932.1	8929.6	8908.3	9208.7	9989.7	10121.2	10768.3	9644.3	8104.7	8904.5	8556.6
65°	10213.8	10168.7	9983.5	10311.4	11296.5	11450.5	11648.2	9877.1	7848.1	8139.7	7204.7
67.5°	11554.3	11551.8	11401.6	11827.2	13172.8	13331.7	12748.5	9825.8	7135.9	6593.9	5116.9
70°	12665.8	12612.0	12803.5	13937.6	15569.8	15753.8	13711.0	9221.2	5683.9	4354.6	3040.4
72.5°	12932.5	12935.0	13333.0	15564.8	17871.6	17900.4	14057.7	7473.8	3803.9	2402.0	1520.8
74°	12111.4	12132.6	12749.7	15646.1	18301.0	18170.8	13171.5	5874.2	2572.2	1568.4	1096.5
75°	11054.9	10921.0	11813.4	15104.1	17855.4	17715.2	12133.9	4713.9	1962.6	1252.9	960.0
77.5°	5910.5	6046.9	7423.8	11271.5	14505.8	14344.4	8227.4	2260.6	1060.2	872.4	690.9
80°	2104.1	2320.6	3261.9	5898.0	9300.1	9350.1	3926.6	1036.4	746.0	643.4	488.2
82.5°	858.7	882.4	1400.6	2617.3	4722.6	4767.7	1603.4	615.8	533.2	443.1	291.6
85°	335.5	345.5	619.6	1176.6	2015.2	2146.6	554.5	325.4	327.9	254.1	149.0
87.5°	112.7	127.7	254.1	391.8	684.7	670.9	161.5	96.4	117.7	110.1	46.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3449.7	3449.7	3449.7	3449.7	3449.7	3449.7	3449.7	3449.7	3449.7	3449.7	3449.7
2.5°	3460.9	3484.7	3501.0	3518.5	3534.8	3539.8	3536.0	3547.3	3548.5	3549.8	3551.0
5°	3480.9	3513.5	3544.8	3562.3	3569.8	3563.6	3542.3	3531.0	3521.0	3513.5	3516.0
7.5°	3508.5	3554.8	3583.6	3591.1	3571.1	3542.3	3489.7	3448.4	3422.1	3404.6	3403.3
10°	3551.0	3596.1	3619.9	3598.6	3543.5	3473.4	3390.8	3313.2	3254.4	3236.9	3235.6
12.5°	3604.9	3656.2	3654.9	3592.3	3496.0	3370.8	3236.9	3146.7	3066.6	3026.6	3042.9
15°	3675.0	3713.8	3677.5	3564.8	3412.1	3240.6	3075.4	2952.7	2862.6	2820.1	2822.6
17.5°	3756.3	3790.1	3693.7	3516.0	3294.4	3074.2	2882.6	2766.2	2694.9	2663.6	2661.1
20°	3857.7	3867.7	3693.7	3430.9	3143.0	2880.1	2697.4	2616.0	2576.0	2559.7	2564.7
22.5°	3966.6	3946.6	3673.7	3310.7	2944.0	2677.4	2554.7	2518.4	2498.4	2495.9	2498.4
25°	4089.3	4032.9	3632.4	3148.0	2736.2	2502.1	2430.8	2437.0	2440.8	2440.8	2449.6
27.5°	4239.5	4126.8	3563.6	2942.7	2493.4	2339.4	2319.4	2363.2	2383.2	2387.0	2393.2
30°	4437.2	4229.5	3449.7	2686.1	2286.8	2193.0	2228.0	2286.8	2309.4	2323.1	2320.6
32.5°	4672.6	4342.1	3295.7	2429.5	2120.4	2090.3	2132.9	2193.0	2218.0	2225.5	2215.5
35°	4949.2	4469.8	3092.9	2189.2	1975.2	1992.7	2042.8	2061.5	2084.1	2084.1	2089.1
37.5°	5247.1	4572.4	2845.1	1968.9	1862.5	1926.4	1962.6	1945.1	1935.1	1922.6	1928.9
40°	5550.0	4648.8	2523.4	1751.1	1749.9	1857.5	1867.5	1817.5	1777.4	1764.9	1758.6
42.5°	5814.1	4696.3	2233.0	1582.1	1643.5	1789.9	1797.4	1717.3	1653.5	1615.9	1603.4
45°	6125.8	4751.4	1948.9	1441.9	1544.6	1736.1	1754.9	1647.2	1553.3	1474.5	1454.5
47.5°	6552.6	4876.6	1724.8	1333.0	1473.2	1702.3	1728.6	1589.6	1465.7	1363.1	1346.8
50°	7034.5	5048.1	1550.8	1259.2	1418.2	1672.3	1704.8	1530.8	1384.4	1270.5	1257.9
52.5°	7476.3	5140.7	1400.6	1192.9	1364.3	1617.2	1673.5	1488.3	1304.3	1177.8	1166.6
55°	7717.9	4990.5	1252.9	1127.8	1290.5	1545.8	1629.7	1429.4	1226.7	1129.0	1112.8
57.5°	7750.5	4680.1	1119.0	1057.7	1212.9	1458.2	1548.3	1358.1	1176.6	1095.2	1081.5
60°	7498.9	4216.9	1015.1	1000.1	1134.0	1359.3	1457.0	1295.5	1125.3	1057.7	1043.9
62.5°	6873.0	3713.8	942.5	947.5	1053.9	1255.4	1389.4	1235.4	1076.5	1016.4	1003.9
65°	5796.6	3065.4	872.4	893.7	982.6	1174.1	1328.0	1185.4	1027.6	985.1	973.8
67.5°	4026.7	2213.0	814.9	837.4	915.0	1091.5	1256.7	1131.5	972.6	950.0	932.5
70°	2229.3	1361.8	747.3	773.5	844.9	998.8	1176.6	1050.2	892.5	882.4	857.4
72.5°	1171.6	867.4	670.9	699.7	749.8	879.9	1053.9	961.3	813.6	771.0	738.5
74°	915.0	711.0	619.6	649.6	683.4	809.8	981.3	897.5	757.3	707.2	682.2
75°	797.3	633.4	575.8	614.6	644.6	762.3	925.0	852.4	726.0	678.4	655.9
77.5°	563.3	474.4	470.6	516.9	533.2	668.4	833.6	776.0	647.1	597.1	575.8
80°	395.5	355.5	373.0	401.8	424.3	590.8	773.5	670.9	530.7	471.9	464.4
82.5°	257.8	232.8	266.6	292.9	300.4	435.6	624.6	509.4	386.8	314.2	291.6
85°	118.9	116.4	152.7	149.0	147.7	212.8	370.5	297.9	222.8	166.5	156.5
87.5°	30.0	28.8	37.6	31.3	37.6	32.5	33.8	8.8	1.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)